

Table SI. Sequences of PCR primers and MassARRAY[®] (Agena Bioscience, Inc.) probes.

A, PCR primers		
Probe ID	Targeted mutation site	Sequence (5'-3')
BRAF_PCRF	BRAF c.1799T>A, p.(Val600Glu)	ACGTTGGATGTCTTCATGAAGACCTCACAG
BRAF_PCRR	BRAF c.1799T>A, p.(Val600Glu)	ACGTTGGATGTTCAAACCTGATGGGACCCAC
KRAS_PCRF	KRAS c.34G>A, p.(Gly12Ser); KRAS c.34G>C, p.(Gly12Arg); KRAS c.34G>T, p.(Gly12Cys); KRAS c.35G>A, p.(Gly12Asp); KRAS c.35G>C, p.(Gly12Ala); KRAS c.35G>T, p.(Gly12Val); KRAS c.37G>A, p.(Gly13Ser); KRAS c.37G>T, p.(Gly13Cys); KRAS c.37G>C, p.(Gly13Arg); KRAS c.38G>A, p.(Gly13Asp); KRAS c.38G>T, p.(Gly13Ala); KRAS c.38G>C, p.(Gly13Val)	ACGTTGGATGTAGCTGTATCGTCAAGGCAC
KRAS_PCRR	KRAS c.34G>A, p.(Gly12Ser); KRAS c.34G>C, p.(Gly12Arg); KRAS c.34G>T, p.(Gly12Cys); KRAS c.35G>A, p.(Gly12Asp); KRAS c.35G>C, p.(Gly12Ala); KRAS c.35G>T, p.(Gly12Val); KRAS c.37G>A, p.(Gly13Ser); KRAS c.37G>T, p.(Gly13Cys); KRAS c.37G>C, p.(Gly13Arg); KRAS c.38G>A, p.(Gly13Asp) ; KRAS c.38G>T, p.(Gly13Ala); KRAS c.38G>C, p.(Gly13Val)	ACGTTGGATGACTTGTGGTAGTTGGAGCTG
HER2_PCRF	HER2 c.2325_2326>TATACGTGATGGCG, p.(A775_G776insYVMA)	ACGTTGGATGAGAAGGCCGGGAGACATATGG
HER2_PCRR	HER2 c.2325_2326>TATACGTGATGGCG, p.(A775_G776insYVMA)	ACGTTGGATGTACCCTTGTCCCCAGGAAG
EGFR_ex18_PCRF	EGFR c.2126A>C, p.(Glu709Ala); EGFR c.2126A>G, p.(Glu709Gly); EGFR c.2126A>T, p.(Glu709Val); EGFR c.2156G>C, p.(Gly719Ala);	ACGTTGGATGTTATACACCGTGCCGAACGC

	EGFR c.2156G>A, p.(Gly719Asn); EGFR c.2155G>A, p.(Gly719Ser); EGFR c.2155G>T, p.(Gly719Cys)	
EGFR_ex18_PCR	EGFR c.2126A>C, p.(Glu709Ala); EGFR c.2126A>G, p.(Glu709Gly); EGFR c.2126A>T, p.(Glu709Val); EGFR c.2156G>C, p.(Gly719Ala); EGFR c.2156G>A, p.(Gly719Asn); EGFR c.2155G>A, p.(Gly719Ser); EGFR c.2155G>T, p.(Gly719Cys)	ACGTTGGATGACCAAGCTCTCTTGAGGATC
EGFR_ex19_PCR	EGFR c.2235_2249del15, p.(E746- A750del) EGFR c.2236_2250del15, p.(E746-A750del) EGFR c.2237_2251del15, p.(E746-T751>A) EGFR c.2237_2244>T, p.(E746- S752>V) EGFR c.2239_2248>C, p.(L747-E750>P) EGFR c.2239_2251>C, p.(L747-T751>P) EGFR c.2239_2256del18, p.(L747- S752del) EGFR c.2240_2254del15, p.L747-T751del) EGFR c.2240_2257del19, p.(L747-P753>S) EGFR c.2235_2252>AAT, p.(E746- T751>I) EGFR c.2236_2253del18, p.(E746-T751del) EGFR c.2237_2254del18, p.(E746-S752>A) EGFR c.2238_2255del18, p.(E746- S752>D) EGFR c.2238_2248>GC, p.(L747-A750>P) EGFR c.2238_2252>GCA, p.(L747- T751>Q) EGFR c.2239_2247del19, p.(L747-E749del) EGFR c.2239_2253del15, p.(L747-T751del) EGFR c.2239_2258>CA, p.(L747- P753>Q) EGFR c.2240_2251del12, p.(L747-T751>S)	ACGTTGGATGAGCAGAACTCACATCGAGG
EGFR_ex19_PCR	EGFR c.2235_2249del15, p.(E746- A750del) EGFR c.2236_2250del15, p.(E746-A750del) EGFR	ACGTTGGATGGATCCCAGAAGGTGAGAAAG

	c.2237_2251del15, p.(E746-T751>A) EGFR c.2237_2244>T, p.(E746-S752>V) EGFR c.2239_2248>C, p.(L747-E750>P) EGFR c.2239_2251>C, p.(L747-T751>P) EGFR c.2239_2256del18, p.(L747-S752del) EGFR c.2240_2254del15, p.L747-T751del) EGFR c.2240_2257del19, p.(L747-P753>S) EGFR c.2235_2252>AAT, p.(E746-T751>I) EGFR c.2236_2253del18, p.(E746-T751del) EGFR c.2237_2254del18, p.(E746-S752>A) EGFR c.2238_2255del18, p.(E746-S752>D) EGFR c.2238_2248>GC, p.(L747-A750>P) EGFR c.2238_2252>GCA, p.(L747-T751>Q) EGFR c.2239_2247del9, p.(L747-E749del) EGFR c.2239_2253del15, p.(L747-T751del) EGFR c.2239_2258>CA, p.(L747-P753>Q) EGFR c.2240_2251del12, p.(L747-T751>S)	
EGFR_ex20_PCRF	EGFR c.2303G>T, p.(Ser768Ile); EGFR c.2369C>T, p.(Thr790Met)	ACGTTGGATGTGTTCCCGGACATAGTCCAG
EGFR_ex20_PCRR	EGFR c.2303G>T, p.(Ser768Ile); EGFR c.2369C>T, p.(Thr790Met)	ACGTTGGATGATCTGCCTCACCTCCACCGT
EGFR_ex21_PCRF	EGFR c.2573T>G, p.(Leu858Arg);EGFR c.2573T>A, p.(Ler858Gln);EGFR c.2582T>A, p.(Leu861Gln)	ACGTTGGATGCCTCCTTCTGCATGGTATTC
EGFR_ex21_PCRR	EGFR c.2573T>G, p.(Leu858Arg);EGFR c.2573T>A, p.(Ler858Gln);EGFR c.2582T>A, p.(Leu861Gln)	ACGTTGGATGGCAGCATGTCAAGATCACAG
B, Probe		
Probe ID	Targeted mutation site	Sequence (5'-3')
BRAF_1799	BRAF c.1799T>A, p.(Val600Glu)	CCACTCCATCGAGATTC
KRAS_215	KRAS c.34G>A, p.(Gly12Ser);	TAAACTTGTGGTAGTTGGAGCT

	KRAS c.34G>C, p.(Gly12Arg); KRAS c.34G>T, p.(Gly12Cys)	
KRAS_216	KRAS c.35G>A, p.(Gly12Asp); KRAS c.35G>C, p.(Gly12Ala); KRAS c.35G>T, p.(Gly12Val)	AGGCACTCTGCCTACGCCA
KRAS_218	KRAS c.37G>A, p.(Gly13Ser); KRAS c.37G>T, p.(Gly13Cys); KRAS c.37G>C, p.(Gly13Arg)	TCGTCAAGGCACTCTGCCTACGC
KRAS_219	KRAS c.38G>A, p.(Gly13Asp); KRAS c.38G>T, p.(Gly13Ala); KRAS c.38G>C, p.(Gly13Val)	GCACTCTGCCTACG
HER2_2325	HER2 c.2325_2326>TATACGTGATGGCG, p.(A775_G776insYVMA)	AGCATACGTGATGGC
HER2_2326	HER2 c.2325_2326>TATACGTGATGGCG, p.(A775_G776insYVMA)	AAGCATACGTGATGGCT
EGFR_2126	EGFR c.2126A>C, p.(Glu709Ala); EGFR c.2126A>G, p.(Glu709Gly); EGFR c.2126A>T, p.(Glu709Val)	CAAGCTCTCTTGAGGATCTTGAAGG
EGFR_2155	EGFR c.2155G>A, p.(Gly719Ser); EGFR c.2155G>T, p.(Gly719Cys)	AATTCAAAAAGATCAAAGTGCTG
EGFR_2156	EGFR c.2156G>C, p.(Gly719Ala); EGFR c.2156G>A, p.(Gly719Asn)	GTGCCGAACGCACCGGAG
EGFR_del1	EGFR c.2235_2249del15, p.(E746- A750del)	ATTCCCGTCGCTATCAA
EGFR_del2	EGFR c.2236_2250del15, p.(E746- A750del)	ATTCCCGTCGCTATCAAG
EGFR_del3/4	EGFR c.2237_2251del15, p.(E746- T751>A) EGFR c.2237_2244>T, p.(E746-S752>V)	ATTCCCGTCGCTATCAAGG
EGFR_del5	EGFR c.2239_2248>C, p.(L747- E750>P)	GGCTTTCGGAGATGTTG
EGFR_del6	EGFR c.2239_2251>C, p.(L747- T751>P)	TTGTTGGCTTTCGGAGATG
EGFR_del7	EGFR c.2239_2256del18, p.(L747- S752del)	CCTTGTTGGCTTTCGG
EGFR_del8	EGFR c.2240_2254del15, p.L747-	TCCTTGTTGGCTTTCGGAGAT

	T751del)	
EGFR_del9	EGFR c.2240_2257del19, p.(L747-P753>S)	TCGAGGATTCCTTGTGGCTTTTCG
EGFR_del13	EGFR c.2238_2255del18, p.(E746-S752>D)	AATTCCCGTCGCTATCAAGGA
EGFR_del16	EGFR c.2239_2247del9, p.(L747-E749del)	AATTCCCGTCGCTATCAAGGAA
EGFR_del17	EGFR c.2239_2253del15, p.(L747-T751del)	AAATTCCCGTCGCTATCAAGGAAT
EGFR_2303	EGFR c.2303G>T, p.(Ser768Ile)	GGCGGCACACGTGGGGGTTGTCCACG
EGFR_2369	EGFR c.2369C>T, p.(Thr790Met)	TGCCTCACCTCCACCGTGCAGCTCATCA
EGFR_2573	EGFR c.2573T>G, p.(Leu858Arg);EGFR c.2573T>A, p.(Ler858Gln)	AAGATCACAGATTTTGGGC
EGFR_2582	EGFR c.2582T>A, p.(Leu861Gln)	TTCTTTCTCTTCCGCACCCAGC

BRAF, v-raf murine sarcoma viral oncogene homolog B; KRAS, Kirsten rat sarcoma viral oncogene homolog; HER2, human epidermal growth factor receptor 2; EGFR, epidermal growth factor receptor; PCRF, forward PCR primer; PCRR, reverse PCR primer; del, deletion; ins, insertion.

Table SII. Surgical margins of patients with non-R0 non-small cell lung cancer resection (n=65).

Surgical margins	Patients, n (%)
Bronchial margin	21 (32.3)
Vascular margin	6 (9.2)
Parenchymal margin	33 (50.8)
Bronchial and vascular margin	5 (7.7)